



**MSc in Global Economy**  
**Erasmus Mundus International Masters in "Global Markets, Local Creativities" (GLOCAL)**

**Elective Class (Semester 1):**

**Technology Transfer in the Global Economy**  
**Course code: SPS5015**

The first assessed assignment of this course is a group essay, to which each group member will contribute approximately 750 words. The essay will address **ONE** of the topics outlined below, all of which relate to key concepts developed in the first half of the course and their application. This assignment is meant to allow you to demonstrate attainment of aspects of the intended learning outcomes of the course (which are spelled out in the course booklet), and also to provide you with feedback early in the semester, which will help you do your best in the final essay assignment for the course.

This essay assignment counts for 25% of your total assessment for the course. It is due on Monday, 31 October 2022, by noon. Please see the Moodle page for submission details.

Please address **ONE** of the following questions in your group essay. Your essay answer should reflect on some of the reading, lectures, and class discussions we have had through session 5 on 19 October 2022. We would expect that you would cite two or three sources from course readings in your brief essay. Some of the questions require data/specific information to answer them. All of these data are available, if necessary, from sources available in the course documentation and/or on the course Moodle site.

1. To what degree does the social construction of technology (SCOT) approach explain the emergence and development of **ANY ONE** of the following technologies and the technological system associated with it?
  - a. Taser
  - b. Video recorder
  - c. Apple Mac
  - d. Watt steam engine

2. Assess the strengths and weaknesses of each of the following indicators of innovation.
  - a. Gross Expenditure on Research and Development (GERD)
  - b. High-technology net exports
  - c. Graduates in science and engineering
3. Assess the strengths and weaknesses of the national system of innovation (NSI) for the technological development of fuel cells for **ANY ONE** of the following countries. Use the data and information on pp. 20, 22, 24, 26, and 29 of the OECD report on *Innovation in Energy Technology* (Paris, 2006), which is available in its entirety on the course Moodle.
  - a. Canada
  - b. France
  - c. Germany
  - d. Italy
  - e. Japan
  - f. Korea
  - g. Norway
  - h. United Kingdom
  - i. United States

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4. How well does the national systems of innovation (NSI) approach explain differences between Germany and Japan in the pharmaceutical biotechnology sector? Use relevant information from the OECD report on *Innovation in Pharmaceutical Biotechnology* (Paris, 2006) [available on course Moodle] in your answer.
5. Using course reading and material presented in class sessions as well as data available on the relevant pages on pp. 92-223 of the *Global Innovation Index 2022* (available at: <https://www.wipo.int/publications/en/details.jsp?id=4622> <viewed 3 October 2022>, explain what factors best explain the differences in ranking between **ANY TWO** of the countries included in the Index.